Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is related to Application Serial Number 10/039,777, filed December 31, 2001, entitled "Method, Apparatus, and System for Suspending Execution and Altering Resource Partitioning in Response to A Thread Suspending Instruction"; Application Serial Number 10/039,579, filed December 31, 2001, entitled "A Method and Apparatus for Suspending Execution of a Thread Until a Specified Memory Access Occurs"; Application Serial Number 10/039,650, filed December 31, 2001, entitled "Methods, Systems, and Machine Readable Media for Suspending Execution of a Thread Until a Specified Memory Access Occurs" Using a Monitoring Mechanism" all filed on the same date as the present application.

Please replace paragraph [0044] with the following amended paragraph:

[0044] In block 505, a memory wait (MWAIT) opcode is received in thread 1, and passed to execution. Execution of the MWAIT opcode unmasks monitor events in the embodiment of Figure 5. In response to the MWAIT opcode, a test is performed, as indicated in block 515, to determine whether a monitor event is pending. If no monitor event is pending, then a test is performed in block 520 to ensure that the monitor is active. For example, if an MWAIT is executed without previously executing a MONITOR, the monitor 310 would not be active. If either the monitor is inactive or a monitor event is pending, then thread 1 execution is continued in block 580.

Please replace paragraph [0068 - 0072] with the following amended paragraphs:

[0068] Figure 11 illustrates various design representations or formats for

simulation, emulation, and fabrication of a design using the disclosed techniques. Data representing a design may represent the design in a number of manners. First, as is useful in simulations, the hardware may be represented using a hardware description language or another functional description language which essentially provides a computerized model of how the designed hardware is expected to perform. The hardware model 1110 may be stored in a storage medium 1100 such as a computer memory so that the model may be simulated using simulation software 1120 that applies a particular test suite to the hardware model 1110 to determine if it indeed functions as intended. In some embodiments, the simulation software is not recorded, captured, or contained in the medium.

[0069] Additionally, a circuit level model with logic and/or transistor gates may be produced at some stages of the design process. This model may be similarly simulated, sometimes by dedicated hardware simulators that form the model using programmable logic. This type of simulation, taken a degree further, may be an emulation technique. In any case, re-configurable hardware is another embodiment that may involve a machine readable medium storing a model employing the disclosed techniques.

[0070] Furthermore, most designs, at some stage, reach a level of data representing the physical placement of various devices in the hardware model. In the case where conventional semiconductor fabrication techniques are used, the data representing the hardware model may be the data specifying the presence or absence of various features on different mask layers for masks used to produce the integrated circuit. Again, this data representing the integrated circuit embodies the techniques disclosed in that the circuitry or logic in the data can be simulated or fabricated to perform these techniques.

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[0071] In any representation of the design, the data may be stored in any form of a computer readable medium. An optical or electrical wave 1160 modulated or otherwise generated to transmit such information, a memory 1150, or a magnetic or optical storage 1140 such as a disc may be the medium. The set of bits describing the design or the particular part of the design are an article that may be sold in and of itself or used by others for further design or fabrication.

[0072] Thus, coherency techniques for suspending execution of a thread until a specified memory access occurs are disclosed. While certain exemplary embodiments have been described and shown in the accompanying drawings, it is to be understood that such embodiments are merely illustrative of and not restrictive on the broad invention, and that this invention not be limited to the specific constructions and arrangements shown and described, since various other modifications may occur to those ordinarily skilled in the art upon studying this disclosure.